

ABSTRACT OF THE DISCLOSURE

A laser-diode-pumped solid-state laser apparatus includes a laser rod, and laser diode devices that generate pumping light. Optical unit such as a reflection mirror and an optical waveguide medium is provided at a position in a laser resonator near a laser optical axis and not blocking the optical axis. A photo-detector detects a quantity of fluorescence generated from solid-state laser medium. The fluorescence quantity is compared with a predetermined value or a previously measured value. Thus degradation status of a laser diode light source is constantly diagnosed.

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